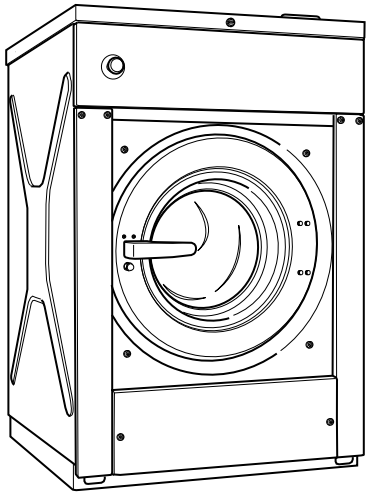
Washer-Extractors

Cabinet Freestanding

Refer to Page 5 for Model Identification

CE

Installation



CFD644N_SVG

Original Instructions
Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.alliancelaundry.com

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Table of Contents

Safety Information.....5
Explanation of Safety Messages.....5
Important Safety Instructions.....5
Safety Decals.....6

Introduction.....7
Model Identification.....7
Nameplate Location.....9
Replacement Parts 9
Customer Service.....9

Specifications and Dimensions.....10
Specifications and Dimensions.....10

Installation.....32
Dimensional Clearances.....32
Machine Foundation.....33
Mechanical Installation.....34
Frame Dimensions and Mounting Bolt Location For 12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l) and 25 lb. (100 l) Capacity Models.....34
Frame Dimensions and Mounting Bolt Location For 30 lb. (135 l) and 35 lb. (165 l) Capacity Models.....36
Frame Dimensions and Mounting Bolt Location For 45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) Capacity Models.....37
Frame Dimensions and Mounting Bolt Location For 100 lb. (455 l), 135lb. (575 l), 165 lb. (730) and 200 lb. (900 l) Capacity Models.....39
Mounting Bolt Installation (If Required).....40
Removing the Transport Brackets.....41
Drain Connection.....42
Water Connection.....46
WRAS Water Connection.....49
Electrical Installation.....49
Electrical Connection.....70
Machine without Electric Heating.....70
Machine with Electric Heating.....70
Remote Liquid Supply Connection.....70
Chemical Injection Supply System.....70
Steam Requirements (Steam Heat Option Only).....71
Supply Programming Table.....71
Supply Relay Configuration (No Wiring).....72
Primary 220 Volt Remote Liquid Supply Connection.....72

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Automatic Lubricator..... 73
Control Function Test.....73

Disposal of Unit..... 75

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Safety Information

Explanation of Safety Messages

Precautionary statements [“DANGER,” “WARNING,” and “CAUTION”], followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer, and those maintaining the machine.

DANGER

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

Additional precautionary statements [“IMPORTANT” and “NOTE”] are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

WARNING

To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:

W023

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the GROUNDING instructions in the INSTALLATION manual for the proper grounding of the washer. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer’s instructions on packages of laundry and cleaning aids. Heed all

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warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
- Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
- Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 5 minutes after turning the power OFF and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering OFF. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

Use manufacturer-authorized spare parts to avoid safety hazards.

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Introduction

Model Identification

Information in this manual is applicable to these models:

CS018	CXE200	CXN305	CXU730	CXZ165	HX45	HXE135	HXR035	HXW235
CS025	CXG060	CXR018	CXU900	CXZ235	HX55	HXE165	HXR055	HXW305
CS035	CXG065	CXR025	CXW060	CXZ305	HX75	HXE200	HXR075	HXW455
CS055	CXG075	CXR035	CXW065	CXZ455	HX100	HXG075	HXR100	HXW575
CS075	CXG100	CXR055	CXW075	CXZ575	HX135	HXG100	HXR135	HXW730
CS100	CXG135	CXR075	CXW100	CXZ730	HX165	HXG165	HXR165	HXW900
CS135	CXG165	CXR100	CXW135	CXZ900	HX200	HXG235	HXU075	HXY018
CS165	CXG235	CXR135	CXW165	HD60	HXA075	HXG305	HXU100	HXY025
CS200	CXG305	CXR165	CXW235	HD65	HXA100	HXG455	HXR200	HXY030
CXE012	CXG455	CXR200	CXW305	HD75	HXA135	HXG575	HXU165	HXY035
CXE014	CXG575	CXU060	CXY018	HD100	HXA165	HXG730	HXU195	HXY045
CXE018	CXG730	CXU065	CXY025	HD135	HXA195	HXG900	HXU235	HXY055
CXE025	CXG900	CXU075	CXY035	HD165	HXA235	HXN075	HXU305	HXY075
CXE030	CXN060	CXU100	CXY055	HD195	HXA305	HXN100	HXU455	HXZ075
CXE035	CXN065	CXU135	CXY075	HD235	HXE018	HXN135	HXU575	HXZ100
CXE055	CXN075	CXU165	CXZ060	HD305	HXE025	HXN165	HXU730	HXZ165
CXE075	CXN100	CXU235	CXZ065	HX18	HXE035	HXN235	HXU900	HXZ235
CXE100	CXN135	CXU305	CXZ075	HX25	HXE055	HXN305	HXW075	HXZ305
CXE135	CXN165	CXU455	CXZ100	HX30	HXE075	HXR018	HXW100	HXZ455
CXE165	CXN235	CXU575	CXZ135	HX35	HXE100	HXR025	HXW165	HXZ575

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HXZ730	IXE165	IXR012	IXU900	IXZ065	SX35	SXE135	SXR055	SXY035
HXZ900	IXG060	IXR018	IXW065	IXZ075	SX45	SXE165	SXR075	SXY045
IS012	IXG065	IXR025	IXW075	IXZ100	SX55	SXE200	SXR100	SXY055
IS018	IXG075	IXR035	IXW100	IXZ135	SX75	SXG075	SXR135	SXY075
IS025	IXG100	IXR055	IXW135	IXZ165	SX100	SXG100	SXR165	SXZ075
IS035	IXG135	IXR075	IXW165	IXZ195	SX135	SXG135	SXR200	SXZ100
IS055	IXG165	IXR100	IXW195	IXZ235	SX165	SXG165	SXU135	SXZ135
IS075	IXG195	IXR135	IXW235	IXZ305	SX200	SXG195	SXU195	SXZ165
IS100	IXG235	IXR165	IXW305	IXZ455	SXA075	SXG235	SXU455	SXZ195
IS135	IXG305	IXR200	IXW455	IXZ575	SXA100	SXG305	SXU575	SXZ235
IS165	IXG455	IXE200	IXW575	IXZ730	SXA135	SXG455	SXU730	SXZ305
IS200	IXG575	IXU060	IXW730	IXZ900	SXA165	SXG575	SXU900	SXZ455
IXA060	IXG730	IXU065	IXW900	PXU060	SXA195	SXG730	SXW135	SXZ575
IXA065	IXG900	IXU075	IXY012	PXU065	SXA235	SXG900	SXW195	SXZ730
IXA075	IXN060	IXU100	IXY014	PXU075	SXA305	SXN075	SXW235	SXZ900
IXA100	IXN065	IXU135	IXY018	PXU100	SXE018	SXN100	SXW305	UX18
IXA135	IXN075	IXU165	IXY025	PXU135	SXE025	SXN135	SXW455	UX25
IXA165	IXN100	IXU195	IXY030	PXU165	SXE030	SXN165	SXW575	UX30
IXA195	IXN135	IXU235	IXY035	PXU235	SXE035	SXN235	SXW730	UX35
IXA235	IXN165	IXU305	IXY045	PXU305	SXE045	SXN305	SXW900	UX45
IXA305	IXN195	IXU455	IXY055	SX18	SXE055	SXR018	SXY018	UX55
IXE100	IXN235	IXU575	IXY075	SX25	SXE075	SXR025	SXY025	UX75
IXE135	IXN305	IXU730	IXZ060	SX30	SXE100	SXR035	SXY030	UX100

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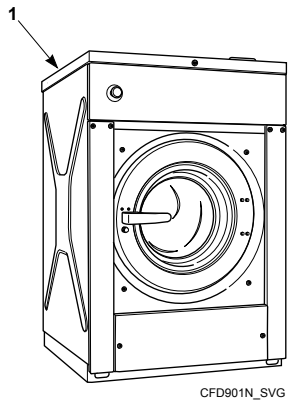
UX135	UXE030	UXG100	UXN075	UXR100	UXU305	UXW235	UXY075	UXZ730
UX165	UXE035	UXG135	UXN100	UXR135	UXU455	UXW305	UXZ075	UXZ900
UX200	UXE045	UXG165	UXN165	UXR165	UXU575	UXW455	UXZ100	
UXA075	UXE055	UXG195	UXN235	UXR200	UXU730	UXW575	UXZ135	
UXA100	UXE075	UXG235	UXN305	UXU075	UXU900	UXW730	UXZ165	
UXA165	UXE100	UXG305	UXR018	UXU100	UXW075	UXW900	UXZ195	
UXA235	UXE135	UXG455	UXR025	UXU135	UXW100	UXY018	UXZ235	
UXA305	UXE165	UXG575	UXR035	UXU165	UXW135	UXY025	UXZ305	
UXE018	UXE200	UXG730	UXR055	UXU195	UXW165	UXY035	UXZ455	
UXE025	UXG075	UXG900	UXR075	UXU235	UXW195	UXY055	UXZ575	

Nameplate Location

The nameplate is located at the rear of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* .



1. Nameplate

Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Alliance Laundry Systems
Shepard Street
P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin
Alliance International: +32 56 41 20 54 Wevelgem, Belgium

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Specifications and Dimensions

Specifications and Dimensions

General Specifications					
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**
Overall Dimensions					
Overall width	25.98 in. [660 mm]	25.98 in. [660 mm]	25.98 in. [660 mm]	25.98 in. [660 mm]	30.71 in. [780 mm]
Overall height	41.46 in. [1053 mm]	41.46 in. [1053 mm]	41.46 in. [1053 mm]	41.46 in. [1053 mm]	47.76 in. [1213 mm]
Overall depth	30.31 in. [770 mm]	30.31 in. [770 mm]	30.31 in. [770 mm]	34.25 in. [870 mm]	33.86 in. [860 mm]
Weight and Shipping Information					
Net weight	439 lb. [199 kg]	467 lb. [212 kg]	481 lb. [218 kg]	525 lb. [238 kg]	789 lb. [358 kg]
Shipping weight	483 lb. [219 kg]	512 lb. [232 kg]	525 lb. [238 kg]	569 lb. [258 kg]	878 lb. [398 kg]
Shipping volume	25.34 ft3 [0.72 m3]	25.34 ft3 [0.72 m3]	25.34 ft3 [0.72 m3]	28.65 ft3 [0.81 m3]	38.50 ft3 [1.09 m3]
Wash Cylinder Information					
Cylinder diameter	20.87 in. [530 mm]	20.87 in. [530 mm]	20.87 in. [530 mm]	20.87 in. [530 mm]	25.59 in. [650 mm]
Cylinder depth	9.84 in. [250 mm]	11.61 in. [295 mm]	12.99 in. [330 mm]	17.32 in. [440 mm]	15.75 in. [400 mm]
Cylinder volume	1.9 ft3 [55 l]	2.3 ft3 [65 l]	2.6 ft3 [73 l]	3.4 ft3 [95 l]	4.7 ft3 [132 l]
Perforation size	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]
Door Opening Information					

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General Specifications					
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**
Door opening diameter	11.81 in. [300 mm]	11.81 in. [300 mm]	11.81 in. [300 mm]	11.81 in. [300 mm]	15.75 in. [400 mm]
Height of door bottom above floor	10.75 in. [273 mm]	10.75 in. [273 mm]	10.75 in. [273 mm]	10.75 in. [273 mm]	11.81 in. [300 mm]
Drive Train Information					
Number of motors in drive train	1	1	1	1	1
Drive motor power	1.0 HP (0.75 kW)	1.0 HP (0.75 kW)	1.0 HP (0.75 kW)	1.0 HP (0.75 kW)	3.0 HP (2.2 kW)
Cylinder Speeds					
Wash/reverse speed all other models	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM
Wash/reverse speed WE-8	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM
Distribution/drain speed	82 RPM	82 RPM	82 RPM	82 RPM	74 RPM
Extract speed all other models	250-1250 RPM	250-1000 RPM	250-1000 RPM	250-1000 RPM	250-1000 RPM
Extract speed WE-8	250-1250 RPM	250-1000 RPM	200-1000 RPM	200-1000 RPM	200-1000 RPM
Centrifugal Force Data					
Wash/reverse centrifugal force	0.03-0.74 Gs	0.03-0.74 Gs	0.03-0.74 Gs	0.03-0.74 Gs	0.04-0.91 Gs
Extract centrifugal force all other models	18-462 Gs	18-295 Gs	18-295 Gs	18-295 Gs	23-362 Gs
Extract centrifugal force WE-8	18-462 Gs	18-295 Gs	12-295 Gs	12-295 Gs	15-362 Gs

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General Specifications					
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**
Direct Steam Heating (Optional)					
Steam inlet connection size	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.	1 x 3/8 in.
Number of steam inlets	1	1	1	1	1
Noise (wash/spin)	52/68 dBa	52/68 dBa	52/68 dBa	52/68 dBa	62/73 dBa

Table 1

General Specifications				
Capacity lb. (l)	**35 (165)**	**45 (195)**	**55 (235)**	**75 (305)**
Overall Dimensions				
Overall width	30.71 in. [780 mm]	35.43 in. [900 mm]	35.43 in. [900 mm]	41.93 in. [1065 mm]
Overall height	47.76 in. [1213 mm]	60.55 in. [1538 mm]	60.55 in. [1538 mm]	61.54 in. [1563 mm]
Overall depth	37.80 in. [960 mm]	37.20 in. [945 mm]	40.75 in. [1035 mm]	46.57 in. [1183 mm]
Weight and Shipping Information				
Net weight	800 lb. [363 kg]	1105 lb. [501 kg]	1177 lb. [534 kg]	1612 lb. [731 kg]
Shipping weight	889 lb. [403 kg]	1193 lb. [541 kg]	1266 lb. [574 kg]	1722 lb. [781 kg]
Shipping volume	41.33 ft3 [1.17 m3]	64.06 ft3 [1.81 m3]	64.06 ft3 [1.81 m3]	86.71 ft3 [2.46 m3]
Wash Cylinder Information				
Cylinder diameter	25.59 in. [650 mm]	29.53 in. [750 mm]	29.53 in. [750 mm]	33.46 in. [850 mm]

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General Specifications				
Capacity lb. (l)	**35 (165)**	**45 (195)**	**55 (235)**	**75 (305)**
Cylinder depth	19.69 in. [500 mm]	17.32 in. [440 mm]	20.87 in. [530 mm]	21.14 in. [537 mm]
Cylinder volume	5.8 ft3 [165 l]	6.9 ft3 [195 l]	8.3 ft3 [234 l]	10.7 ft3 [304 l]
Perforation size	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]
Door Opening Information				
Door opening diameter	15.75 in. [400 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]	15.75 in. [400 mm]
Height of door bottom above floor	11.81 in. [300 mm]	22.24 in. [565 mm]	22.24 in. [565 mm]	22.44 in. [570 mm]
Drive Train Information				
Number of motors in drive train	1	1	1	1
Drive motor power	3.0 HP (2.2 kW)	4.0 HP (3 kW)	4.0 HP (3 kW)	5.4 HP (4 kW)
Cylinder Speeds				
Wash/reverse speed all other models	10-50 RPM	10-49 RPM	10-49 RPM	10-46 RPM
Wash/reverse speed WE-8	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM
Distribution/drain speed	74 RPM	69 RPM	69 RPM	65 RPM
Extract speed all other models	250-1000 RPM	250-1000 RPM	250-1000 RPM	250-1000 RPM
Extract speed WE-8	200-1000 RPM	200-1000 RPM	200-1000 RPM	200-1000 RPM
Centrifugal Force Data				

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General Specifications				
Capacity lb. (l)	**35 (165)**	**45 (195)**	**55 (235)**	**75 (305)**
Wash/reverse centrifugal force	0.04-0.91 Gs	0.04-1.00 Gs	0.04-1.00 Gs	0.05-1.00 Gs
Extract centrifugal force all other models	22-362 Gs	26-418 Gs	26-418 Gs	29-474 Gs
Extract centrifugal force WE-8	15-362 Gs	17-418 Gs	17-418 Gs	19-474 Gs
				Direct Steam Heating (Optional)
Steam inlet connection size	1 x 3/8 in.	1 x 1/2 in.	1 x 1/2 in.	1 x 1/2 in.
Number of steam inlets	1	1	1	1
Noise (wash/spin)	62/73 dBa	64/85 dBa	64/85 dBa	66/86 dBa

Table 2

General Specifications				
Capacity lb. (l)	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
				Overall Dimensions
Overall width	47.24 in. [1200 mm]	47.24 in. [1200 mm]	51.18in. [1300 mm]	51.18 in. [1300 mm]
Overall height	75.59 in. [1920 mm]	75.59 in. [1920 mm]	82.68 in. [2100 mm]	82.68 in. [2100 mm]
Overall depth	51.18 in. [1300 mm]	58.27 in. [1480 mm]	62.99 in. [1600 mm]	70.08 in. [1780 mm]
				Weight and Shipping Information
Net weight	3521 lb. [1597 kg]	3940 lb. [1787 kg]	4961 lb. [2250 kg]	6395 lb. [2900 kg]
Shipping weight	3742 lb. [1697 kg]	4161 lb. [1887 kg]	5182 lb. [2350 kg]	6615 lb. [3000 kg]

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General Specifications				
Capacity lb. (l)	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
Shipping volume	139.83 ft3 [3.96 m3]	159.39 ft3 [4.51 m3]	200.23 ft3 [5.67 m3]	274.57 ft3 [7.78 m3]
				Wash Cylinder Information
Cylinder diameter	38.58 in. [980 mm]	38.58 in. [980 mm]	43.11 in. [1095 mm]	43.11 in. [1095 mm]
Cylinder depth	23.50 in. [597 mm]	30.51 in. [775 mm]	30.51 in. [775 mm]	37.68 in. [957 mm]
Cylinder volume	16.1 ft3 [455 l]	20.3 ft3 [575 l]	25.8 ft3 [730 l]	31.8 ft3 [900 l]
Perforation size	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]	0.12 in. [3 mm]
				Door Opening Information
Door opening diameter	19.69 in. [500 mm]	19.69 in. [500 mm]	24.49 in. [622 mm]	24.49 in. [622 mm]
Height of door bottom above floor	25.2 in. [640 mm]	25.2 in. [640 mm]	26.38 in. [670 mm]	26.38 in. [670 mm]
				Drive Train Information
Number of motors in drive train	1	1	1	1
Drive motor power	7.4 HP (5.5 kW)	10.1 HP (7.5 kW)	14.8 HP (11 kW)	20.1 HP (15 kW)
				Cylinder Speeds
Wash/reverse speed all other models	10-43 RPM	10-43 RPM	10-40 RPM	10-40 RPM
Wash/reverse speed WE-8	10-50 RPM	10-50 RPM	10-50 RPM	10-50 RPM
Distribution/drain speed	60 RPM	60 RPM	57 RPM	57 RPM

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General Specifications				
Capacity lb. (l)	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
Extract speed all other models	250-800 RPM	250-800 RPM	250-750 RPM	250-750 RPM
Extract speed WE-8	200-800 RPM	200-800 RPM	200-750 RPM	200-750 RPM
Centrifugal Force Data				
Wash/reverse centrifugal force	0.05-1.01 Gs	0.05-1.01 Gs	0.06-0.98 Gs	0.06-0.98 Gs
Extract centrifugal force all other models	34-350 Gs	34-350 Gs	34-345 Gs	34-345 Gs
Extract centrifugal force WE-8	22-350 Gs	22-350 Gs	24-345 Gs	24-345 Gs
Direct Steam Heating (Optional)				
Steam inlet connection size	1/2 in.	1/2 in.	3/4 in.	3/4 in.
Number of steam inlets	1	1	1	1
Noise (wash/spin)	70/78 dBa	70/78 dBa	70/78 dBa	70/80 dBa

Table 3

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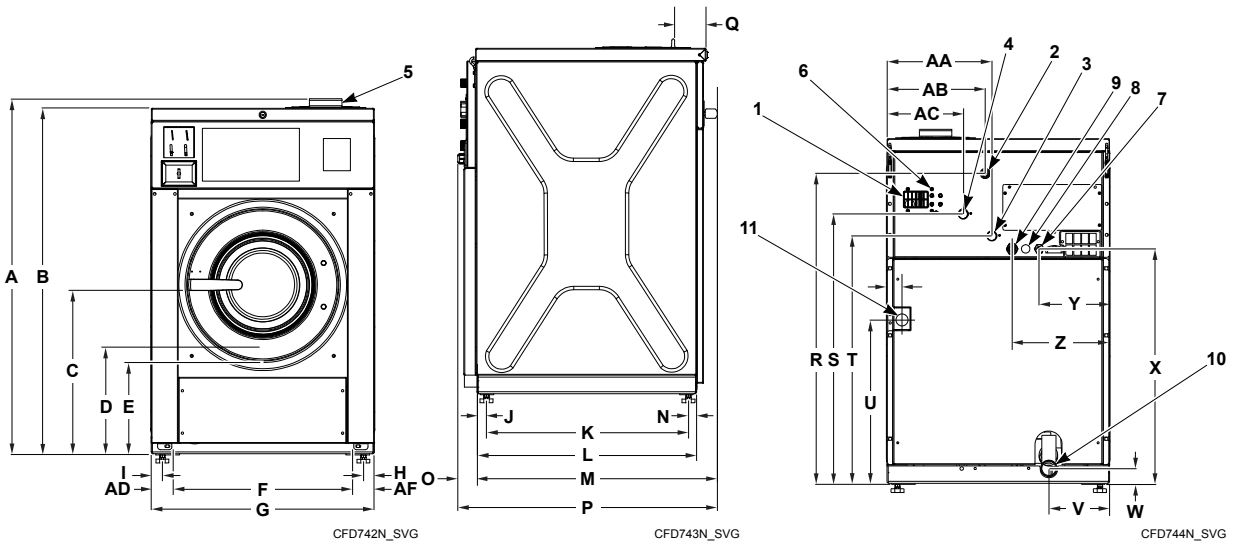

12 lb. (60 l) 14 lb. (65 l), 18 lb. (75 l) and 25 lb. (100 l) Capacity Models

1. Fill and Supply Ventilation
2. Direct Fill (Optional)
3. Hot Water Inlet
4. Cold Water Inlet
5. Flushing Supply Dispenser
6. External Liquid Supply Inlets
7. Electrical Steam Input
8. External Supply Signal Input
9. Electrical Power Input
10. Drain Outlet
11. Steam Connection Output

Figure 2

Machine Capacity lb. (l)				
	12 (60)	**14 (65)**	**18 (75)**	**25 (100)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
A	41.46 [1053]	41.46 [1053]	41.46 [1053]	41.46 [1053]
B	40.35 [1025]	40.35 [1025]	40.35 [1025]	40.35 [1025]
C	19.09 [485]	19.09 [485]	19.09 [485]	19.09 [485]
D	13.78 [350]	13.78 [350]	13.78 [350]	13.78 [350]

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Machine Capacity lb. (l)				
	12 (60)	**14 (65)**	**18 (75)**	**25 (100)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
E	10.75 [273]	10.75 [273]	10.75 [273]	10.75 [273]
F	20.87 [530]	20.87 [530]	20.87 [530]	20.87 [530]
G	25.98 [660]	25.98 [660]	25.98 [660]	25.98 [660]
H	1.30 [33]	1.30 [33]	1.30 [33]	1.30 [33]
I	1.30 [33]	1.30 [33]	1.30 [33]	1.30 [33]
J	1.18 [30]	1.18 [30]	1.18 [30]	1.18 [30]
K	23.23 [590]	23.23 [590]	23.23 [590]	27.17 [690]
L	25.59 [650]	25.59 [650]	25.59 [650]	29.53 [750]
M	27.76 [705]	27.76 [705]	27.76 [705]	31.69 [805]
N	1.18 [30]	1.18 [30]	1.18 [30]	1.18 [30]
O	2.56 [65]	2.56 [65]	2.56 [65]	2.56 [65]
P	30.31 [770]	30.31 [770]	30.31 [770]	34.25 [870]
Q	3.74 [95]	3.74 [95]	3.74 [95]	3.74 [95]
R	36.22 [920]	36.22 [920]	36.22 [920]	36.22 [920]
S	31.50 [800]	31.50 [800]	31.50 [800]	31.50 [800]
T	28.94 [735]	28.94 [735]	28.94 [735]	28.94 [735]
U	19.29 [490]	19.29 [490]	19.29 [490]	19.29 [490]

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Machine Capacity lb. (l)				
	12 (60)	**14 (65)**	**18 (75)**	**25 (100)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
V	7.28 [185]	7.28 [185]	7.28 [185]	7.28 [185]
W	2.36 [60]	2.36 [60]	2.36 [60]	2.36 [60]
X	27.36 [695]	27.36 [695]	27.36 [695]	27.36 [695]
Y	8.27 [210]	8.27 [210]	8.27 [210]	8.27 [210]
Z	11.42 [290]	11.42 [290]	11.42 [290]	11.42 [290]
AA	12.40 [315]	12.40 [315]	12.40 [315]	12.40 [315]
AB	11.61 [295]	11.61 [295]	11.61 [295]	11.61 [295]
AC	9.06 [230]	9.06 [230]	9.06 [230]	9.06 [230]
AD	2.56 [65]	2.56 [65]	2.56 [65]	2.56 [65]
AF	2.56 [65]	2.56 [65]	2.56 [65]	2.56 [65]
AM	1.38 [35]	1.38 [35]	1.38 [35]	1.38 [35]

Table 4

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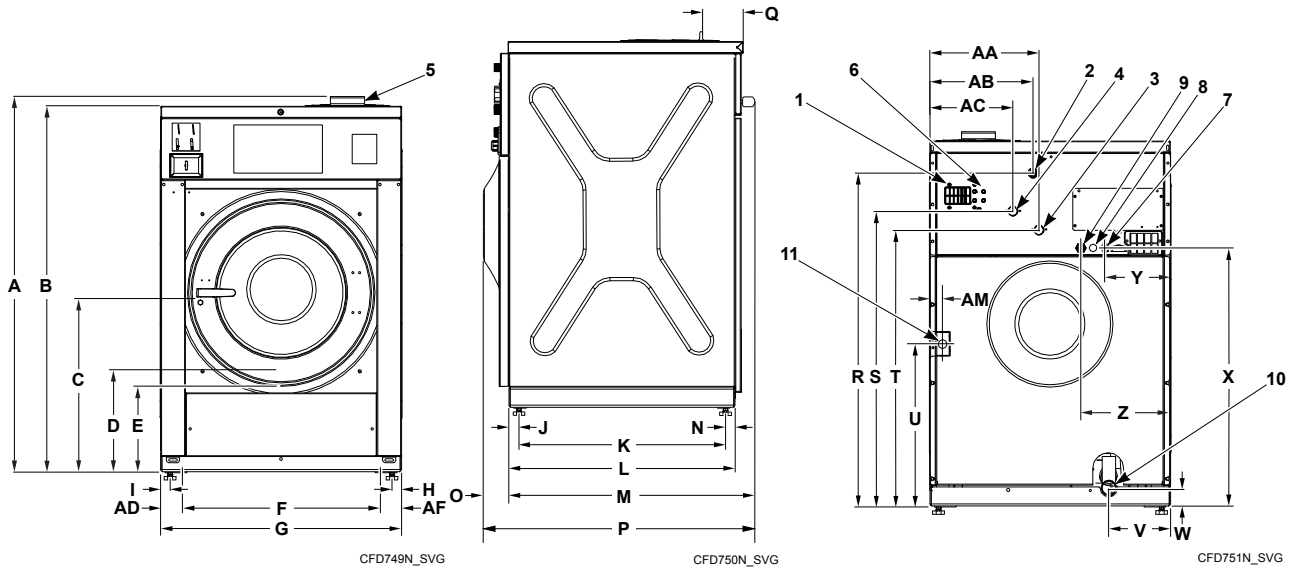

30 lb. (135 l) and 35 lb. (165 l) Capacity Models

1. Fill and Supply Ventilation
2. Direct Fill (Optional)
3. Hot Water Inlet
4. Cold Water Inlet
5. Flushing Supply Information
6. External Liquid Supply Inlets
7. Electrical Steam Input
8. External Supply Signal Input
9. Electrical Power Input
10. Drain Outlet
11. Steam Connection Output

Figure 3

Machine Capacity lb. (l)		
	30 (135)	**35 (165)**
	inch [mm]	**inch [mm]**
A	47.76 [1213]	47.76 [1213]
B	46.65 [1185]	46.65 [1185]
C	22.44 [570]	22.44 [570]
D	15.35 [390]	15.35 [390]

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Machine Capacity lb. (l)		
	30 (135)	**35 (165)**
	inch [mm]	**inch [mm]**
E	11.81 [300]	11.81 [300]
F	25.51 [648]	25.51 [648]
G	30.71 [780]	30.71 [780]
H	1.34 [34]	1.34 [34]
I	1.34 [34]	1.34 [34]
J	1.48 [37.5]	1.48 [37.5]
K	26.18 [665]	30.12 [765]
L	29.13 [740]	33.07 [840]
M	31.30 [795]	35.24 [895]
N	1.48 [37.5]	1.48 [37.5]
O	2.56 [65]	2.56 [65]
P	33.86 [860]	37.80 [960]
Q	3.74 [95]	3.74 [95]
R	42.52 [1080]	42.52 [1080]
S	37.60 [955]	37.60 [955]
T	35.24 [895]	35.24 [895]
U	20.67 [525]	20.67 [525]

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Machine Capacity lb. (l)		
	30 (135)	**35 (165)**
	inch [mm]	**inch [mm]**
V	7.87 [200]	7.87 [200]
W	3.35 [85]	3.35 [85]
X	32.87 [835]	32.87 [835]
Y	8.27 [210]	8.27 [210]
Z	11.42 [290]	11.42 [290]
AA	13.98 [355]	13.98 [355]
AB	13.19 [335]	13.19 [335]
AC	10.63 [270]	10.63 [270]
AD	2.6 [66]	2.6 [66]
AF	2.6 [66]	2.6 [66]
AM	1.38 [35]	1.38 [35]

Table 5

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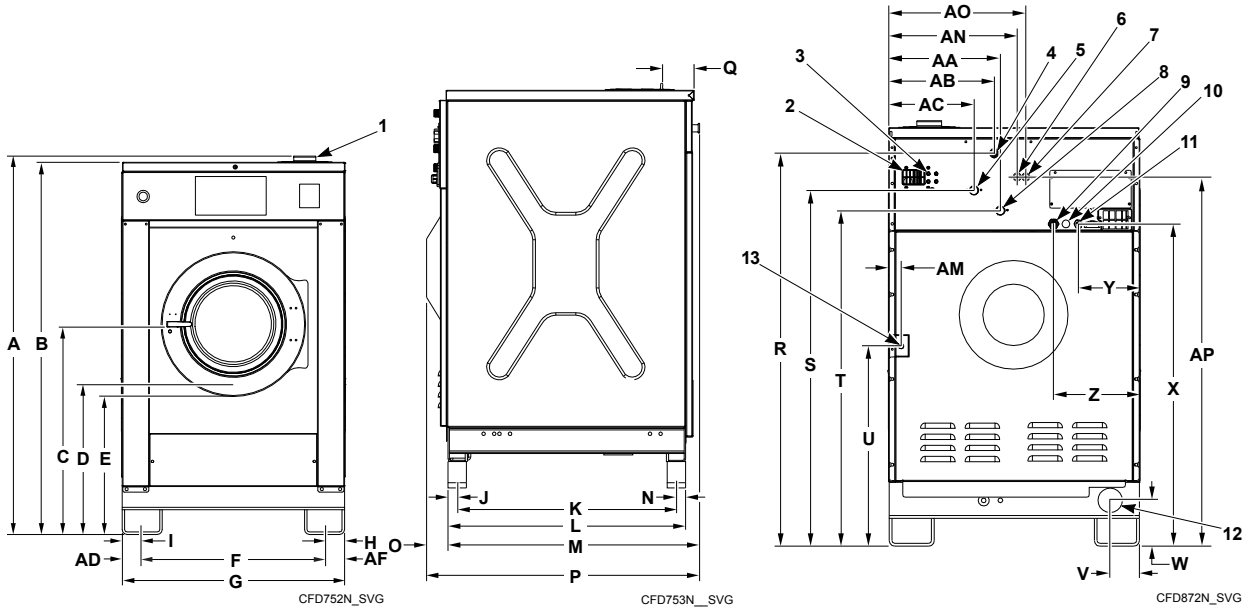

45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) Capacity Models

1. Flushing Supply Dispenser
2. Fill and Supply Ventilation
3. External Liquid Supply Inlets
4. Direct Fill (Optional)
5. Cold Water Inlet
6. Cold Water Inlet (75 lb. [305 l] Only)
7. Hot Water Inlet (75 lb. [305 l] Only)
8. Hot Water Inlet
9. Electrical Power Input
10. External Supply Signal Input
11. Electrical Steam Input
12. Drain Outlet
13. Steam Connection Output

Figure 4

Machine Capacity lb. (l)			
	45 (195)	**55 (235)**	**75 (305)**
	inch [mm]	**inch [mm]**	**inch [mm]**
A	60.55 [1538]	60.55 [1538]	61.54 [1563]
B	59.45 [1510]	59.45 [1510]	60.43 [1535]
C	33.07 [840]	33.07 [840]	33.27 [845]

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Machine Capacity lb. (l)			
	45 (195)	**55 (235)**	**75 (305)**
	inch [mm]	**inch [mm]**	**inch [mm]**
D	25.98 [660]	25.98 [660]	26.18 [665]
E	22.24 [565]	22.24 [565]	22.44 [570]
F	29.06 [738]	29.06 [738]	34.06 [865]
G	35.43 [900]	35.43 [900]	41.93 [1065]
H	3.19 [81]	3.19 [81]	3.94 [100]
I	3.19 [81]	3.19 [81]	3.94 [100]
J	1.38 [35]	1.38 [35]	1.54 [39]
K	29.13 [740]	32.68 [830]	37.80 [960]
L	31.89 [810]	35.43 [900]	40.87 [1038]
M	34.25 [870]	37.80 [960]	43.23 [1098]
N	1.38 [35]	1.38 [35]	1.54 [39]
O	2.95 [75]	2.95 [75]	3.35 [85]
P	37.20 [945]	40.75 [1035]	46.57 [1183]
Q	3.94 [100]	3.94 [100]	3.94 [100]
R	55.12 [1400]	55.12 [1400]	55.71 [1415]
S	50.20 [1275]	50.20 [1275]	50.79 [1290]
T	47.83 [1215]	47.83 [1215]	48.43 [1230]

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Machine Capacity lb. (l)			
	45 (195)	**55 (235)**	**75 (305)**
	inch [mm]	**inch [mm]**	**inch [mm]**
U	28.35 [720]	28.35 [720]	22.83 [580]
V	4.33 [110]	4.33 [110]	4.33 [110]
W	6.30 [160]	6.30 [160]	6.69 [170]
X	45.67 [1160]	45.67 [1160]	46.85 [1190]
Y	8.66 [220]	8.66 [220]	10.83 [275]
Z	11.81 [300]	11.81 [300]	15.28 [388]
AA	14.57 [370]	14.57 [370]	16.34 [415]
AB	13.78 [350]	13.78 [350]	15.35 [390]
AC	11.42 [290]	11.42 [290]	12.99 [330]
AD	3.19 [81]	3.19 [81]	3.94 [100]
AF	3.19 [81]	3.19 [81]	3.94 [100]
AM	1.38 [35]	1.38 [35]	1.38 [35]
AN	N/A	N/A	19.88 [505]
AO	N/A	N/A	21.46 [545]
AP	N/A	N/A	52.17 [1325]

Table 6

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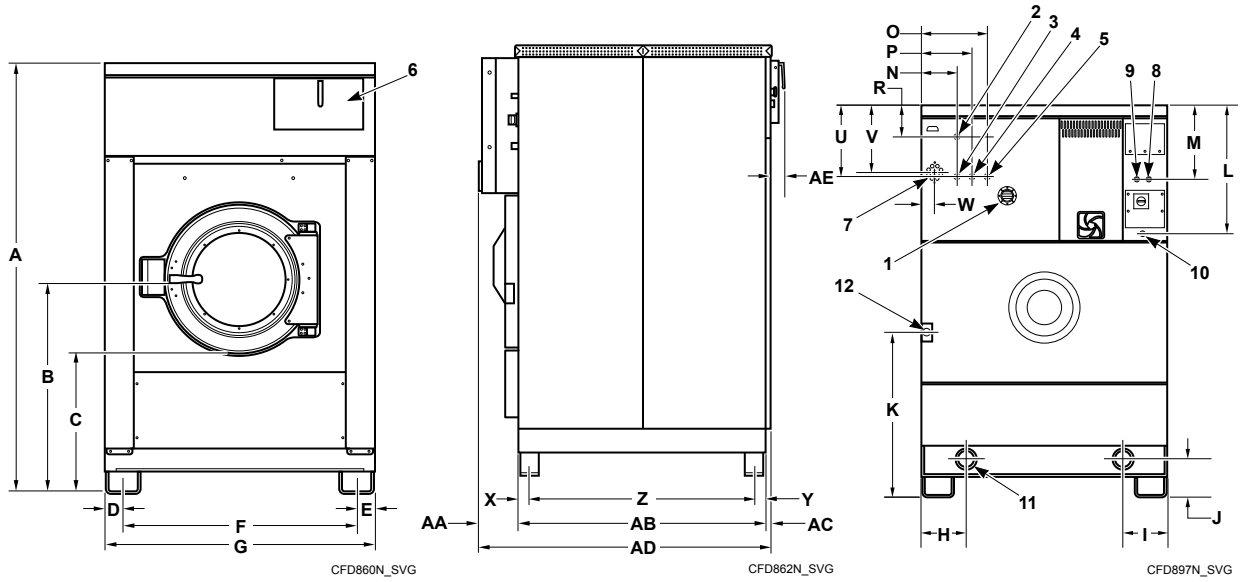

100 lb. (455 l) and 135 lb. (575 l) Capacity Models

1. Fill and Supply Ventilation
2. Three-Way Inlet Valve to Supply Dispenser (Soft Water)
3. One-Way Inlet Valve to Tub (Hard Water)
4. One-Way Inlet Valve to Tub (Hot Water)
5. One-Way Inlet Valve to Tub (Soft Water)
6. Flushing Supply Dispenser
7. External Liquid Supply Inlets
8. Electrical Steam Input
9. External Supply Signal Input
10. Electrical Power Input
11. Drain Outlet
12. Steam Connecton Output

Figure 5

Machine Capacity lb. (l)		
	100 (455)	**135 (575)**
	inch [mm]	**inch [mm]**
A	75.59 [1920]	75.59 [1920]
B	37.80 [960]	37.80 [960]
C	25.20 [640]	25.20 [640]

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Machine Capacity lb. (l)		
	100 (455)	**135 (575)**
	inch [mm]	**inch [mm]**
D	3.27 [83]	3.27 [83]
E	3.27 [83]	3.27 [83]
F	40.71 [1034]	40.71 [1034]
G	47.24 [1200]	47.24 [1200]
H	8.27 [210]	8.27 [210]
I	8.27 [210]	8.27 [210]
J	6.89 [175]	6.89 [175]
K	29.53 [750]	29.53 [750]
L	19.09 [485]	19.09 [485]
M	10.04 [255]	10.04 [255]
N	6.89 [175]	6.89 [175]
O	11.61 [295]	11.61 [295]
P	9.25 [235]	9.25 [235]
R	4.53 [115]	4.53 [115]
U	10.83 [275]	10.83 [275]
V	10.04 [255]	10.04 [255]
W	3.35 [85]	3.35 [85]

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Machine Capacity lb. (l)		
	100 (455)	**135 (575)**
	inch [mm]	**inch [mm]**
X	1.97 [50]	1.97 [50]
Y	1.97 [50]	1.97 [50]
Z	39.17 [995]	46.26 [1175]
AA	7.09 [180]	7.09 [180]
AB	43.11 [1095]	50.20 [1275]
AC	.98 [25]	.98 [25]
AD	51.18 [1300]	58.27 [1480]
AE	2.76 [70]	2.76 [70]

Table 7

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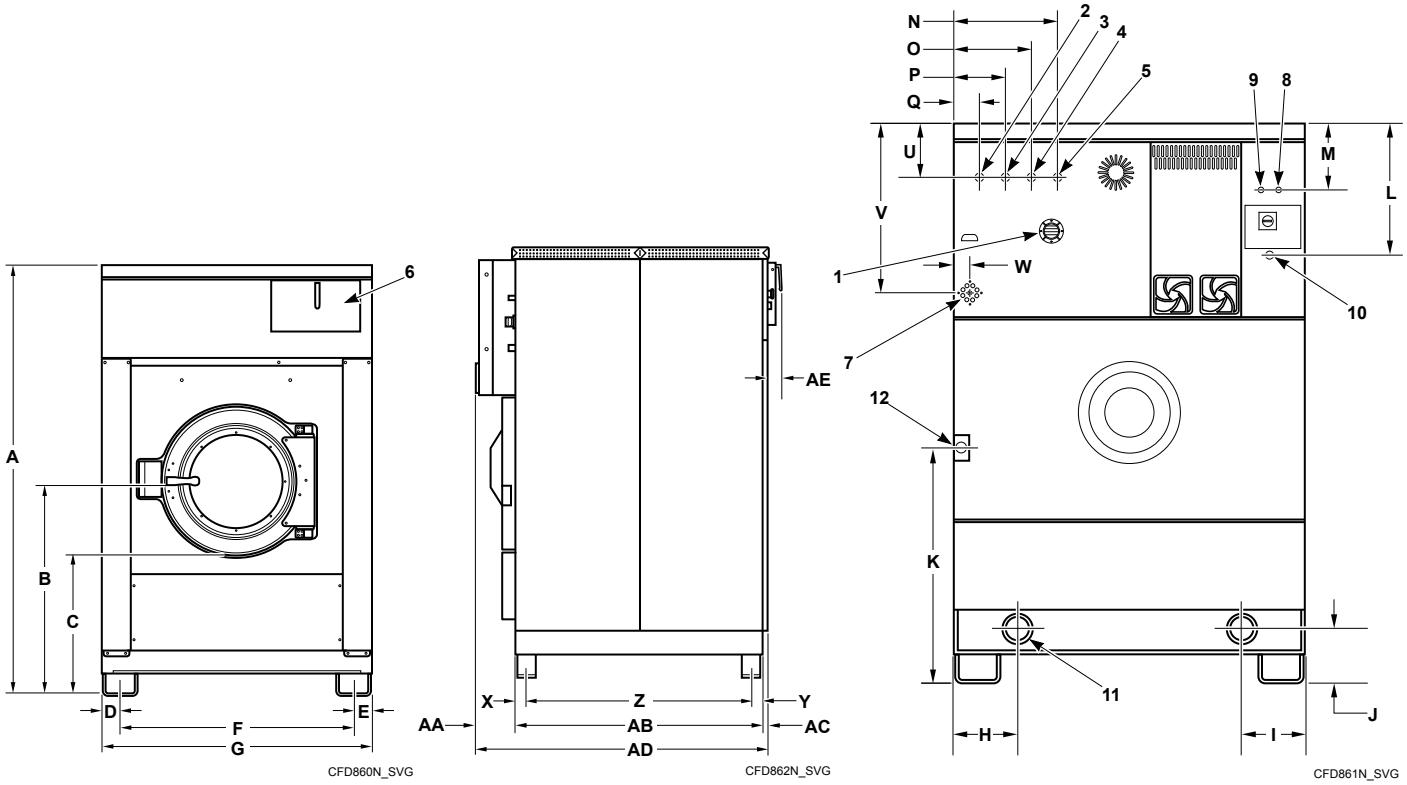

165 lb. (730 l) and 200 lb. (900 l) Capacity Models

1. Fill and Supply Ventilation
2. Three-Way Inlet Valve to Supply Dispenser (Soft Water)
3. One-Way Inlet Valve to Tub (Hard Water)
4. One-Way Inlet Valve to Tub (Hot Water)
5. One-Way Inlet Valve to Tub (Soft Water)
6. Flushing Supply Dispenser
7. External Liquid Supply Inlets
8. Electrical Steam Input
9. External Supply Signal Input
10. Electrical Power Input
11. Drain Outlet
12. Steam Connecton Output

Figure 6

Machine Capacity lb. (l)		
	165 (730)	**200 (900)**
	inch [mm]	**inch [mm]**
A	82.68 [2100]	82.68 [2100]

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Machine Capacity lb. (l)		
	165 (730)	**200 (900)**
	inch [mm]	**inch [mm]**
B	40.94 [1040]	40.94 [1040]
C	26.38 [670]	26.38 [670]
D	3.27 [83]	3.27 [83]
E	3.27 [83]	3.27 [83]
F	44.65 [1134]	44.65 [1134]
G	51.18 [1300]	51.18 [1300]
H	10.24 [260]	10.24 [260]
I	10.24 [260]	10.24 [260]
J	6.89 [175]	6.89 [175]
K	35.43 [900]	35.43 [900]
L	19.09 [485]	19.09 [485]
M	10.04 [255]	10.04 [255]
N	4.92 [125]	4.92 [125]
O	16.14 [410]	16.14 [410]
P	12.40 [315]	12.40 [315]
Q	8.66 [220]	8.66 [220]
U	8.46 [215]	8.46 [215]

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Machine Capacity lb. (l)		
	165 (730)	**200 (900)**
	inch [mm]	**inch [mm]**
V	10.04 [255]	10.04 [255]
W	3.35 [85]	3.35 [85]
X	1.97 [50]	1.97 [50]
Y	1.97 [50]	1.97 [50]
Z	46.65 [1185]	53.15 [1350]
AA	12.01 [305]	12.01 [305]
AB	50 [1270]	57.09 [1450]
AC	.98 [25]	.98 [25]
AD	62.99 [1600]	70.08 [1780]
AE	2.76 [70]	2.76 [70]

Table 8

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Installation

Dimensional Clearances

Table 9 and *Table 10* show recommended minimum clearances on all sides of the machine.

Recommended Minimum Clearances									
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**	**35 (165)**	**45 (195)**	**55 (235)**	**75 (305)**
Minimum rear clearance, in. [mm]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]	24 [600]
Minimum clearance between machine and wall, in. [mm]	6 [150]	6 [150]	6 [150]	6 [150]	6 [150]	6 [150]	6 [150]	6 [150]	6 [150]
Minimum clearance between machines (side), in. [mm]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]
Minimum front clearance (door swing), in. [mm]	14.07 [360]	14.17 [360]	14.17 [360]	14.17 [360]	19.69 [500]	19.69 [500]	19.69 [500]	19.69 [500]	19.69 [500]

Table 9

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Recommended Minimum Clearances				
Capacity lb. (l)	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
Minimum rear clearance, in. [mm]	39 [1000]	39 [1000]	39 [1000]	39 [1000]
Minimum clearance between machine and wall, in. [mm]	6 [150]	6 [150]	6 [150]	6 [150]
Minimum clearance between machines (side), in. [mm]	0.40 [10]	0.40 [10]	0.40 [10]	0.40 [10]
Minimum front clearance (door swing), in. [mm]	23.62 [600]	23.62 [600]	28.35 [720]	28.35 [720]

Table 10

Machine Foundation

Thoroughness of detail must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration during extract.

CAUTION

Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

W488

The machine must be placed on a smooth level surface so that the entire base of the machine is supported and rests on the mounting surface.

The standard installation does not require anchoring unless mandated by state or local codes.

Static and dynamic loads on the floor or foundation are shown in *Table 11* and *Table 12* .

Table 11 and *Table 12* can be used as a reference when designing floors and foundations.

If installing a foundation and pad, prepare a form for the above-ground portion of the foundation. Verify that the top of the foundation is level. The height of the foundation and pad must not exceed 8 inches [203] mm above the existing floor.

IMPORTANT: Mounting bolts MUST be used for installation on 12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) models, models equipped with steam heat and models installed on metal base frames. Refer to Mounting Bolt Installation.

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Floor Load Data									
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**	**35 (165)**	**45 (195)**	**55 (235)**	**75 (305)**
Kinetic Energy of the Cylinder, (N/m)	12488	9075	10024	12538	25900	31315	51296	62604	97806
Dynamic Bottom Load, (N/Hz)	570/21	570/16	550/16	538/16	1100/16	1450/16	1950/16	2300/15	2340/15

Table 11

Floor Load Data				
Capacity lb. (l)	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
Kinetic Energy of the Cylinder, (N/m)	180121	228151	290190	357768
Dynamic Bottom Load, (N/Hz)	2960/13	3900/13	4960/13	6100/13

Table 12

Mechanical Installation

Frame Dimensions and Mounting Bolt Location For 12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l) and 25 lb. (100 l) Capacity Models

IMPORTANT: Drawings are not to scale.

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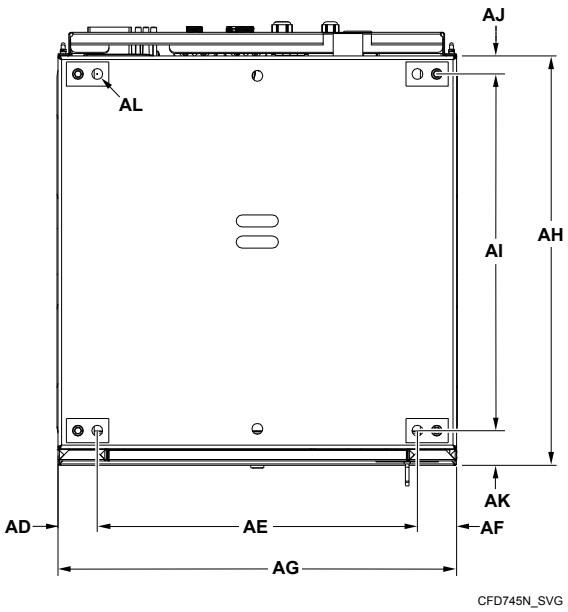

Figure 7

Machine Capacity lb. (l)				
	12 (60)	**14 (65)**	**18 (75)**	**25 (100)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
AD	2.56 [65]	2.56 [65]	2.56 [65]	2.56 [65]
AE	20.87 [530]	20.87 [530]	20.87 [530]	20.87 [530]
AF	2.56 [65]	2.56 [65]	2.56 [65]	2.56 [65]
AG	25.98 [660]	25.98 [660]	25.98 [660]	25.98 [660]
AH	25.59 [650]	25.59 [650]	25.59 [650]	29.53 [750]
AI	23.23 [590]	23.23 [590]	23.23 [590]	27.17 [690]
AJ	1.18 [30]	1.18 [30]	1.18 [30]	1.18 [30]
AK	1.18 [30]	1.18 [30]	1.18 [30]	1.18 [30]

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Machine Capacity lb. (l)				
	12 (60)	14 (65)	18 (75)	25 (100)
	inch [mm]	inch [mm]	inch [mm]	inch [mm]
AL	0.71 [18]	0.71 [18]	0.71 [18]	0.71 [18]

Table 13

Frame Dimensions and Mounting Bolt Location For 30 lb. (135 l) and 35 lb. (165 l) Capacity Models

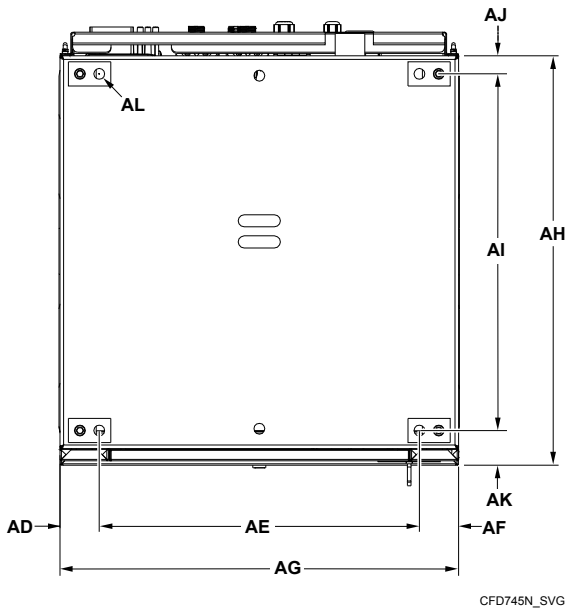

Figure 8

Machine Capacity lb. (l)		
	30 (135)	35 (165)
	inch [mm]	inch [mm]
AD	2.6 [66]	2.6 [66]
AE	25.51 [648]	25.51 [648]
AF	2.6 [66]	2.6 [66]

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Machine Capacity lb. (l)		
	30 (135)	35 (165)
	inch [mm]	inch [mm]
AG	30.71 [780]	30.71 [780]
AH	29.13 [740]	33.07 [840]
AI	26.18 [665]	30.12 [765]
AJ	1.48 [37.5]	1.48 [37.5]
AK	1.48 [37.5]	1.48 [37.5]
AL	0.71 [18]	0.71 [18]

Table 14

Frame Dimensions and Mounting Bolt Location For 45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) Capacity Models

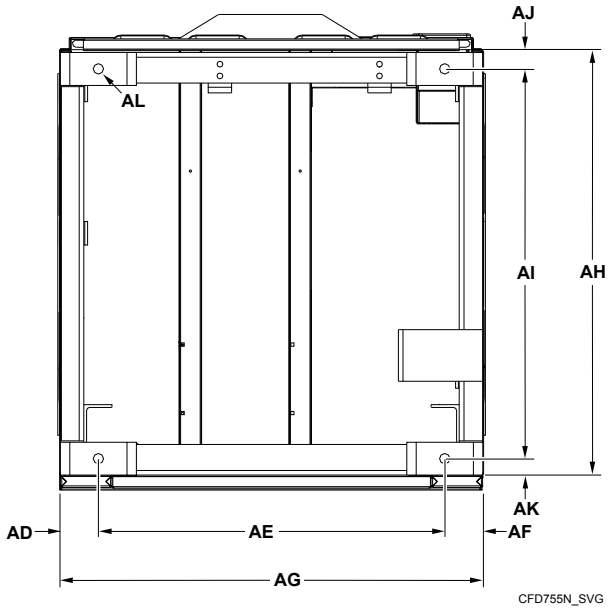

Figure 9

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Machine Capacity lb. (l)			
	45 (195)	**55 (235)**	**75 (305)**
	inch [mm]	**inch [mm]**	**inch [mm]**
AD	3.19 [81]	3.19 [81]	3.94 [100]
AE	29.06 [738]	29.06 [738]	34.06 [865]
AF	3.19 [81]	3.19 [81]	3.94 [100]
AG	35.43 [900]	35.43 [900]	41.93 [1065]
AH	31.89 [810]	35.43 [900]	40.87 [1038]
AI	29.13 [740]	32.68 [830]	37.8 [960]
AJ	1.38 [35]	1.38 [35]	1.54 [39]
AK	1.38 [35]	1.38 [35]	1.54 [39]
AL	0.87 [22]	0.87 [22]	0.87 [22]

Table 15

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Frame Dimensions and Mounting Bolt Location For 100 lb. (455 l), 135lb. (575 l), 165 lb. (730) and 200 lb. (900 l) Capacity Models

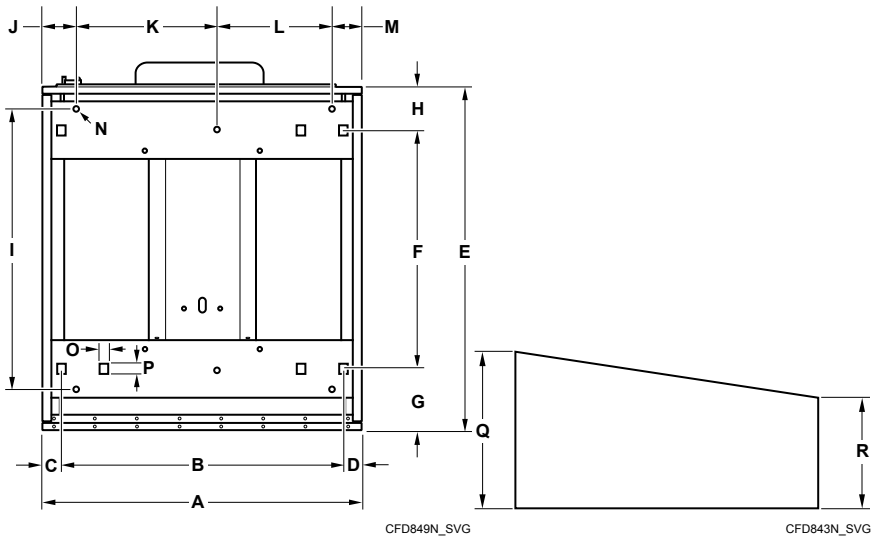

Figure 10

Machine Capacity lb. (l)				
	100 (455)	**135 (575)**	**165 (730)**	**200 (900)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
A	53.54 [1360]	53.54 [1360]	57.48 [1460]	57.48 [1460]
B	47.99 [1219]	47.99 [1219]	51.93 [1319]	51.93 [1319]
C	2.78 [70.5]	2.78 [70.5]	2.78 [70.5]	2.78 [70.5]
D	2.78 [70.5]	2.78 [70.5]	2.78 [70.5]	2.78 [70.5]
E	57.42 [1458.4]	64.11 [1628.4]	64.31 [1633.4]	71.39 [1813.4]
F	39.76 [1010]	46.46 [1180]	46.65 [1185]	53.74 [1365]
G	10.32 [262.2]	10.32 [262.2]	10.32 [262.2]	10.32 [262.2]
H	7.33 [186.2]	7.33 [186.2]	7.33 [186.2]	7.33 [186.2]

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Machine Capacity lb. (l)				
	100 (455)	**135 (575)**	**165 (730)**	**200 (900)**
	inch [mm]	**inch [mm]**	**inch [mm]**	**inch [mm]**
I	46.46 [1180]	53.15 [1350]	53.35 [1355]	60.43 [1535]
J	5.12 [130]	5.12 [130]	5.12 [130]	5.12 [130]
K	21.65 [550]	21.65 [550]	23.62 [600]	23.62 [600]
L	21.65 [550]	21.65 [550]	23.62 [600]	23.62 [600]
M	5.12 [130]	5.12 [130]	5.12 [130]	5.12 [130]
N	0.79 [20]	0.79 [20]	0.79 [20]	0.79 [20]
O	1.30 [33]	1.30 [33]	1.30 [33]	1.30 [33]
P	1.54 [39]	1.54 [39]	1.54 [39]	1.54 [39]
Q	22.05 [560]	22.05 [560]	22.05 [560]	22.05 [560]
R	7.48 [190]	7.48 [190]	7.48 [190]	7.48 [190]
S (*)	2.44 [62]	2.44 [62]	2.44 [62]	2.44 [62]

Table 16

(*)=If tilting option is installed, all 'ground-to-height' dimensions are increased with "S" dimension.

Mounting Bolt Installation (If Required)

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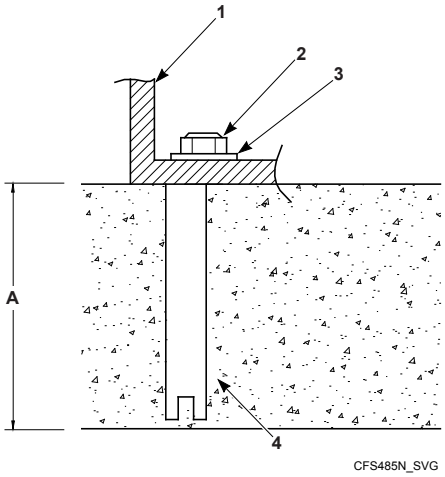

1. Base Frame
2. Bolt
3. Washer
4. Anchor Bolt/Plug

Figure 11

	inch [mm]
A	6 [152]

Table 17

After the concrete has cured and the anchors are installed, proceed as follows:

1. Place the machine adjacent to the foundation. Do not attempt to move it by pushing on the sides. Always insert a pry bar or other device under the bottom of the frame of the washer-extractor to move it.
2. Place the machine carefully over the anchors.
3. Put bolts through the machine in the anchors and fasten them. For the 12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) capacity models, the diameter of the bolt must be minimum 1/2-13 [12 mm]; for the 45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) capacity models, the diameter of the bolt must be minimum 5/8-11 [16 mm].
4. To level machine, fill the spaces between the machine base and floor with machinery grout. Grout completely under all frame members. Remove front and rear panels to gain access to all frame members. Force grout under the machine base until all voids are filled.
5. Allow machine grout to set, but not cure.
6. Remove the spacers carefully, allowing the machine to settle into the wet grout.
7. Position washers and locknuts on machinery anchor bolts and finger-tighten to machine base.
8. After the grout is completely cured, tighten the locknuts by even increments – one after the other – until all are tightened evenly and the machine is fastened securely to the floor.
9. Remove the four red transport brackets which secure the moving components of the machine during shipping. Refer to *Figure 12* , *Figure 13* and *Figure 14* for typical transport bracket locations.

Removing the Transport Brackets

To prevent damage during transportation, the machine has been equipped with red transport brackets to eliminate every possible movement of the tub.

12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) capacity models include two transport brackets. Refer to *Figure 12* .

45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) capacity models include four transport brackets. Refer to *Figure 13* .

100 lb. (455 l), 135 lb. (575 l), 165 lb. (730 l) and 200 lb. (900 l) capacity models include two transport brackets. Refer to *Figure 14* .

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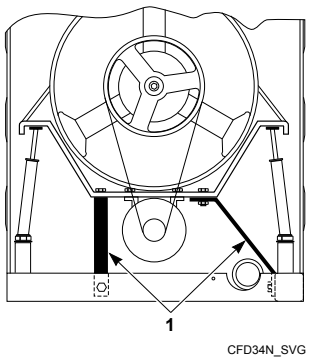
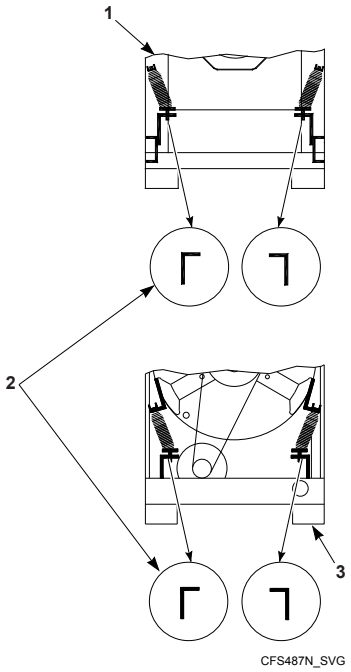
After the machine has been placed level, take off the service panels and the back panel to remove these transport brackets.



12 lb. (60 l), 14 lb. (65 l), 18 lb. (75 l), 25 lb. (100 l), 30 lb. (135 l) and 35 lb. (165 l) Capacity Models

1. Transport Brackets

Figure 12



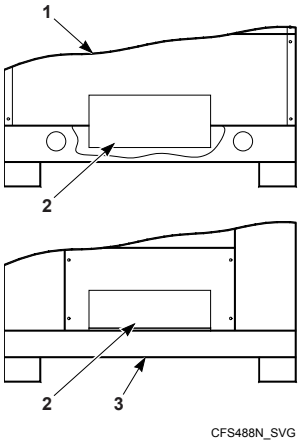
45 lb. (195 l), 55 lb. (235 l) and 75 lb. (305 l) Capacity Models

1. Front View

2. Transport Brackets

3. Rear View

Figure 13



100 lb. (455 l), 135 lb. (575 l), 165 lb. (730 l) and 200 lb. (900 l) Capacity Models

1. Front View

2. Transport Brackets

3. Rear View

Figure 14

Drain Connection

A drain system of adequate capacity is essential to machine performance.

The water should empty through a vented pipe directly into a sump or floor drain.

Figure 15 shows drain line and drain trough configurations.

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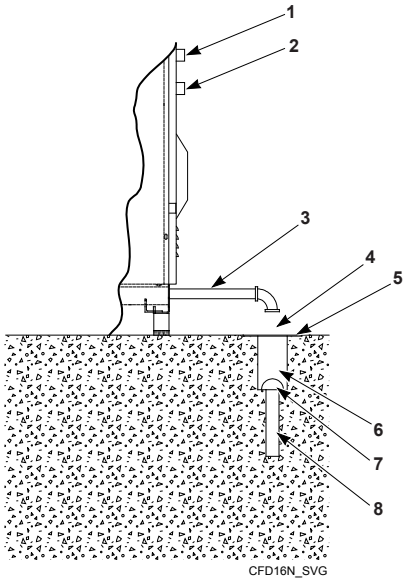

1. Water Inlet
2. Water Inlet Air Gap
3. Drain Pipe
4. 1-Inch Minimum Waste Line Air Gap Per local code (if required)
5. Steel Grate
6. Drain Trough (if required)
7. Strainer (if required)
8. Waste Line

Figure 15

A flexible connection must be made to a vented or air gap drain system to prevent an air lock and siphoning.

If proper drain size is not available or practical, a surge tank is required. A surge tank along with with a sump pump should be used when gravity drainage is not possible.

IMPORTANT: Machine must be installed in accordance with all local codes and ordinances.

Before any deviation from specified installation procedures is attempted, the customer or installer should contact the distributor.

Increasing the drain hose length, installing elbows, or causing bends will impair machine performance.

Refer to *Table 18* and *Table 19* for capacity-specific drain information.

NOTE: Installation of additional machines will require proportionately larger drain connections. Refer to *Table 20* .

Drain Information							
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**	**35 (165)**	**45 (195)**
Drain connectionsize, ID, in. [mm]	2 [49]	2 [49]	2 [49]	2 [49]	3 [75]	3 [75]	3 [75]
Number of drain outlets	1	1	1	1	1	1	1
Drain flow capacity, gal/min	21 [80]	21 [80]	21 [80]	21 [80]	42 [160]	42 [160]	42 [160]

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Drain Information							
Capacity lb. (l)	**12 (60)**	**14 (65)**	**18 (75)**	**25 (100)**	**30 (135)**	**35 (165)**	**45 (195)**
Recommended drain pit size, ft3 [l]	1.93 [54.7]	2.19 [62]	2.45 [69.3]	3.09 [87.5]	4.33 [122.7]	5.27 [149.1]	6.46 [183.0]

Table 18

Drain Information						
Capacity lb. (l)	**55 (235)**	**75 (305)**	**100 (455)**	**135 (575)**	**165 (730)**	**200 (900)**
Drain connectionsize, ID, in. [mm]	3 [75]	3 [75]	3 [75]	3 [75]	3 [75]	3 [75]
Number of drain outlets	1	1	1	1	2	2
Drain flow capacity, gal/min [l/min]	42 [160]	42 [160]	42 [160]	42 [160]	53 [200]	53 [200]
Recommended drain pit size, ft3 [l]	7.46 [211.2]	9.60 [271.7]	14.83 [420]	18.51 [524]	22.99 [651]	27.76 [786]

Table 19

Drain Line SizingMinimum Drain ID							
Capacity lb. (l)	**Number of Machines**						
	1	**2**	**3**	**4**	**5**	**6**	**7**
12 (60)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]

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Drain Line SizingMinimum Drain ID							
Capacity lb. (l)	Number of Machines						
	1	2	3	4	5	6	7
14 (65)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
18 (75)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
25 (100)	2 in. [50.8 mm]	3 in. [76.2 mm]	3.5 in. [88.9 mm]	4 in. [101.6 mm]	4.5 in. [114.3 mm]	5 in. [127 mm]	5.5 in. [139.7 mm]
30 (135)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
35 (165)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
45 (195)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
55 (235)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
75 (305)	3 in. [76.2 mm]	4 in. [101.6 mm]	5 in. [127 mm]	6 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8 in. [203.2 mm]
100 (455)	3.0 in. [76.2 mm]	4.0 in. [101.6 mm]	5.0 in. [127 mm]	6.0 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8.0 in. [203.2 mm]
135 (575)	3.0 in. [76.2 mm]	4.0 in. [101.6 mm]	5.0 in. [127 mm]	6.0 in. [152.4 mm]	6.7 in. [170.2 mm]	7.3 in. [185.4 mm]	8.0 in. [203.2 mm]
165 (730)	4.2 in. [107.8 mm]	6.0 in. [152.4 mm]	7.4 in. [186.7 mm]	8.5 in. [215.5 mm]	9.5 in. [241 mm]	10.4 in. [264 mm]	11.2 in. [285.1 mm]
200 (900)	4.2 in. [107.8 mm]	6.0 in. [152.4 mm]	7.4 in. [186.7 mm]	8.5 in. [215.5 mm]	9.5 in. [241 mm]	10.4 in. [264 mm]	11.2 in. [285.1 mm]

Table 20

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Water Connection

WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.

W748

Machines may be delivered with either two, three, or four hoses, depending on the number of water inlets used on the machine. The hoses include either ¾-inch or 1-inch hose connectors, depending on the water inlets.

NOTE: WRAS-approved models include three hoses.

In case of hot/cold water fill machines, a maximum temperature of hot water of 150°F [65°C] for OPL models or 120°F [50°C] for vended models should be available.

Connections should be supplied by a hot and a cold water line per national and local codes and in accordance with AS/NZS 3500.I.

To connect water service to machine with rubber hoses, use the following procedure:

1. Before installing hoses, flush the water system for at least two minutes.
2. Check filters in the machine's inlet hoses for proper fit and cleanliness before connecting.
3. For 75 lb. (305 l) models only, attach the Y-connector, which is included with the machine, to the faucets prior to connecting the water inlet hoses. Refer to *75 LB. (305 L) AND 90 LB. (400 L) CAPACITY MODELS*.

   NOTE: 75 lb. (305 l) models include two cold water inlet valves and two hot water inlet valves.
4. Hang the hoses in a large loop, do not allow them to kink.

If additional hose length is needed, flexible hoses with screen filters are required. Each hose should have a screen filter installed to keep rust and other foreign particles out of the water inlet valves.

Pressure of 28-85 psi (2-6 bar) provides best performance. Although the machine will function at lower pressures, increased fill times will occur with some loss of supply flushing.

Suitable air cushions (risers) should be installed in supply lines to prevent "hammering."

Water Supply Information

Capacity lb. (l)	12 (60)	14 (65)	18 (75)	25 (100)	30 (135)	35 (165)	45 (195)
Water inlet connection size, in [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]
Number of water inlets (standard)	2	2	2	2	2	2	2
Recommended pressure, psi [bar]	28-85 [2-6]	28-85 [2-6]	28-85 [2-6]	28-85 [2-6]	28-85 [2-6]	28-85 [2-6]	28-85 [2-6]
Inlet flow capacity, gal/min [l/min]	5.3 [20]	5.3 [20]	5.3 [20]	5.3 [20]	5.3 [20]	5.3 [20]	5.3 [20]

Table 21

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Water Supply Information						
Capacity lb. (l)	**55 (235)**	**75 (305)**	**100 (455)**	**135 (575)**	**165(730)**	**200 (900)**
Water inlet connection size, in [mm]	0.75 [19]	0.75 [19]	0.75 [19]	0.75 [19]	1 x 3/4 + 3 x 1 [1 x 19 + 3 x 25.4]	1 x 3/4 + 3 x 1 [1 x 19 + 3 x 25.4]
Number of water inlets (standard)	2	4	4	4	4	4
Recommended pressure, psi [bar]	28-85 [2-6]	28-85 [2-6]	43-73 [3-5]	43-73 [3-5]	43-73 [3-5]	43-73 [3-5]
Inlet flow capacity, gal/min [l/min]	5.3 [20]	10.5 [40]	13.2 [50]	13.2 [50]	26.4 [100]	26.4 [100]

Table 22

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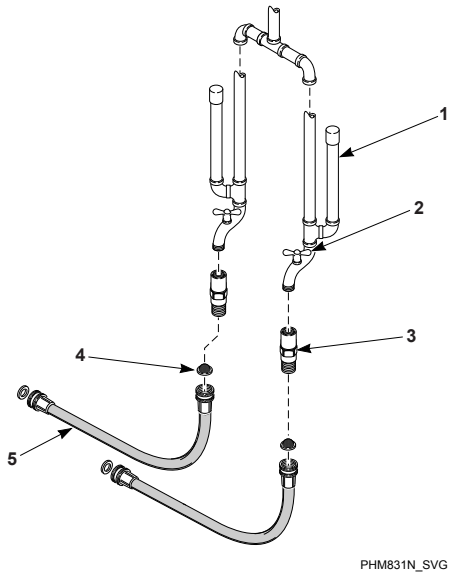
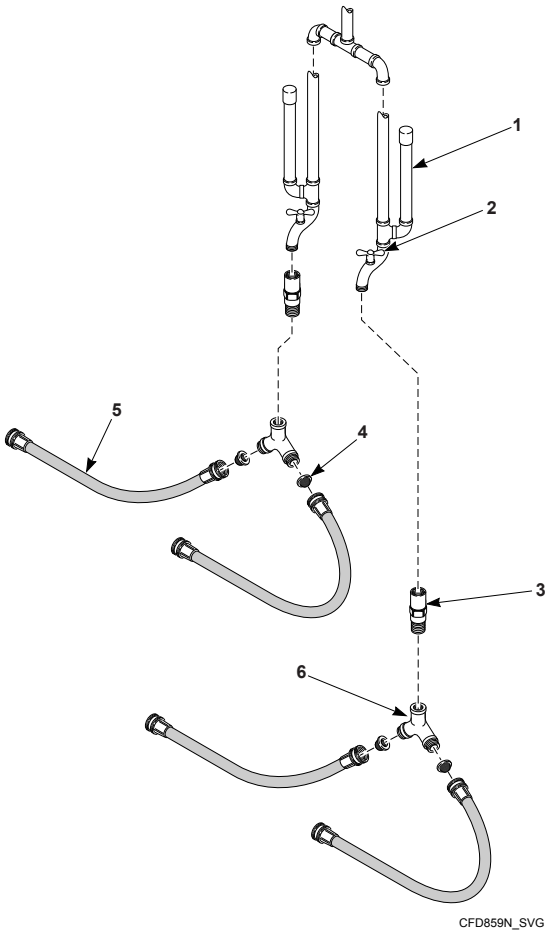


12 LB. (60 L), 14 LB. (65 L), 18 LB. (75 L), 25 LB. (100 L), 30 LB. (135 L), 35 LB. (165 L), 45 LB. (195 L) AND 55 LB. (235 L) CAPACITY MODELS

1. Air Cushions (Risers)
2. Water Supply Faucets
3. Double Check Valves
4. Filters
5. Hoses

Figure 16



75 LB. (305L) CAPACITY MODELS

1. Air Cushions (Risers)
2. Water Supply Faucets
3. Double Check Valves
4. Filters
5. Hoses
6. "Y" Connector (Included with Machine)

Figure 17

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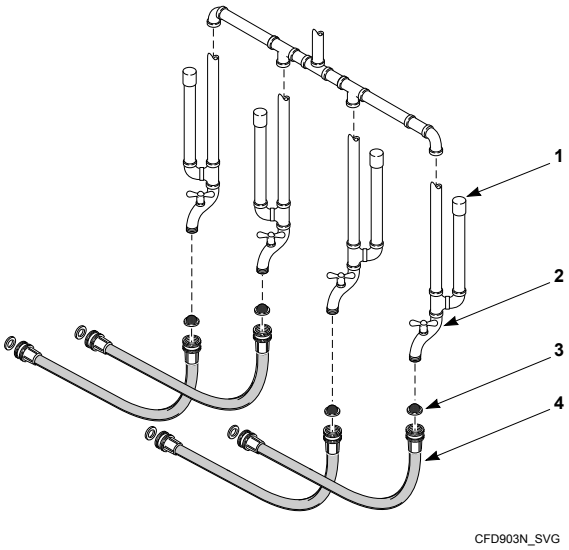


100 LB. (455 L), 135 LB. (575 L), 165 LB. (730 L) AND 200 LB (900 L) CAPACITY MODELS

1. Air Cushions (Risers)
2. Water Supply Faucets
3. Filters
4. Hoses

Figure 18

WRAS Water Connection

To comply with WRAS (IRN R150) and Australian water regulations, European standard EN1717 and Australian standard ATS5200.101, an approved double check valve backflow prevention device with the watermark is provided with the unit and must be fitted at the point of connection(s) between the supply and the fitting. Refer to *Figure 21* .

NOTE: No more than three water connection hoses should be used on WRAS-approved models.

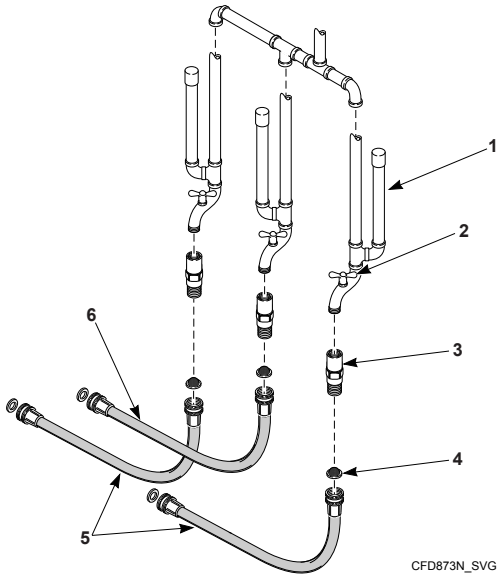
WRAS APPROVED PRODUCT

Figure 19

TM

WaterMark

Figure 20



WRAS Water Connection

1. Air Cushions (Risers)
2. Water Supply Faucets
3. Double Check Valves
4. Filters
5. Hoses
6. Hose (Optional Direct Fill)

Figure 21

Electrical Installation

IMPORTANT: Electrical ratings are subject to change. Refer to serial decal for electrical ratings information specific to your machine.

IMPORTANT: Alliance Laundry Systems warranty does not cover compounds that fail as a result of improper input voltage

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WARNING

Before starting wiring or inspection, power must be switched OFF. Check to make sure that the operation panel indicator is OFF. Any person who is involved in wiring or inspection shall wait for at least 10 minutes after the power supply has been switched OFF and check that there are no residual voltage using a tester or the like. The capacitor of the inverter or the EMC filter is charged with high voltage for some time after power is OFF and it is dangerous.

W795

WARNING

Hazardous Voltage. Can cause shock, burn or death. Verify that a ground wire from a proven earth ground is connected to the lug near the input power block on this machine.

W360

The AC inverter drive requires a clean power supply free from voltage spikes and surges. A voltage monitor should be used to check incoming power. The customer's local power company may provide such a monitor.

If input voltage measures above 240V for a 220V drive or above 415V for a 400V drive, ask the power company to lower the voltage. As an alternative, a step-down transformer kit is available from the distributor.

The AC drive provides overload protection for the drive motor. However, a separate single or three phase circuit breaker must be installed for complete electrical overload protection. This prevents damage to the motor by disconnecting all legs if one should be lost accidentally. Check the data plate on the back of the machine or consult *Table 23* and *Table 24* for circuit breaker requirements.

IMPORTANT: Do NOT use fuses in place of a circuit breaker.

DANGER

Do not use a phase adder on any variablespeed machine.

W490

The machine should be connected to an individual branch circuit not shared with lighting or other equipment.

The connection should be shielded in a liquid tight or approved flexible conduit with proper conductors of correct size installed in accordance with the National Electric Code or other applicable codes. The connection must be made by a qualified electrician using the wiring diagram provided with the machine, or according to accepted European standards for CE-approved equipment.

Use wire sizes indicated in *Table 23* and *Table 24* for runs up to 50 feet.

Use next larger size for runs of 50 to 100 feet. Use two sizes larger for runs greater than 100 feet.

For personal safety and proper operation, the machine must be grounded in accordance with state and local codes. If such codes are not available, grounding must conform with the National Electric Code, article 250 (current edition). The ground connection must be made to a proven earth ground, not to conduit or water pipes.

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
12 (60)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	11.6 - 6Kw (380V)	15 [16]	14 [2.5]
									13.4 - 6Kw (415V)		
12 (60)	N	440-480	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.3 - 9Kw (440V -480V)	15 [16]	14 [2.5]
12 (60)	P	380-415	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	10.1 - 6Kw (380V)	15 [16]	14 [2.5]
									11.9 - 6Kw (415V)		
12 (60)	Q	200-240	50/60	3	3+PE			N/A	14.8 - 6Kw (208V)	25 [20]	12 [2.5]
									18.9 - 6Kw (240V)		
12 (60)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]	22 - 3Kw	30 [32]	10 [4]

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
14 (65)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	11.6 - 6Kw (380V)	15 [16]	14 [2.5]
									13.4 - 6Kw (415V)		
14 (65)	N	440-480	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.3 - 9Kw (440V -480V)	15 [16]	14 [2.5]
14 (65)	P	380-415	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	10.1 - 6Kw (380V)	15 [16]	14 [2.5]
									11.9 - 6Kw (415V)		
14 (65)	Q	200-240	50/60	3	3+PE			N/A	14.8 - 6Kw (208V)	25 [20]	12 [2.5]
									18.9 - 6Kw (240V)		
14 (65)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]			N/A

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
18 (75)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	16.20 - 9Kw (380V)	25 [20]	12 [2.5]
									18.80 - 9Kw (415V)		
18 (75)	N	440-480	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.30 - 9Kw	15 [16]	14 [2.5]
18 (75)	P	380-415	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.70 - 9Kw (380V)	25 [20]	12 [2.5]
									17.30 - 9Kw (415V)		
18 (75)	Q	200-240	50/60	3	3+PE			N/A	21 - 9Kw (208V)	30 [32]	10 [4]
									27.10 - 9Kw (240V)		
18 (75)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]	36 - 6Kw (200V -240V)	40 [40]	8 [4]

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
25 (100)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	16.20 - 9Kw (380V)	25 [20]	12 [2.5]
									18.80 - 9Kw (415V)		
25 (100)	N	440-480	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.3 - 9Kw	15 [16]	14 [2.5]
25 (100)	P	380-415	50/60	3	3+PE	4.1	15 [6]	14 [2.5]	14.70 - 9Kw (380V)	25 [20]	12 [2.5]
									17.30 - 9Kw (415V)		
25 (100)	Q	200-240	50/60	3	3+PE			N/A	21 - 9Kw (208V)	30 [32]	10 [4]
									27.10 - 9Kw (240V)		
25 (100)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]			N/A

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
30 (135)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	20.80 -12Kw (380V)	30 [25]	10 [2.5]
									24.30 - 12Kw (415V)		
30 (135)	N	440-480	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	24.70 - 18Kw (440V)	40 [32]	8 [4]
									29.20 - 18Kw (480V)		
30 (135)	P	380-415	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	19.3 - 12Kw (380V)	30 [25]	10 [2.5]
									22.8 -12Kw (415V)		
30 (135)	Q	200-240	50/60	3	3+PE			N/A	27.20 - 12Kw (208V)	40 [40]	8 [4]
									35.30 - 12Kw (240V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
30 (135)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]			N/A
35 (165)	C	380-415	50/60	3	3+N +PE	10	15 [16]	14 [2.5]	21.30 -12Kw (380V)	30 [25]	10 [2.5]
									24.80 - 12Kw (415V)		
									30.40 - 18Kw (380V)	40 [40]	8 [4]
									35.70 - 18Kw (415V)		
35 (165)	N	440-480	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	24.90 - 18Kw (440V)	40 [32]	8 [4]
									29.40 - 18Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
35 (165)	P	380-415	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	19.5 - 12Kw (380V)	30 [25]	10 [2.5]
									23 -12Kw (415V)		
									28.60-18Kw (380V)	40 [40]	8 [4]
									33.90 - 18Kw (415V)		
35 (165)	Q	200-240	50/60	3	3+PE			N/A	40 - 18kW (208V)	60 [63]	6 [10]
									52.3 - 18Kw (240V)		
35 (165)	X	200-240	50/60	1/3	2/3+PE	10	15 [16]	14 [2.5]			N/A

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
45 (195)	C	380-415	50/60	3	3+N +PE	16	20 [20]	12 [2.5]	31.4 - 18Kw (380V)	40 [40]	8 [4]
									36.7 - 18Kw (415V)		
45 (195)	N	440-480	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	25.30 - 18Kw (440V)	40 [32]	8 [4]
									29.80 - 18Kw (480V)		
45 (195)	P	380-415	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	29 - 18Kw (380V)	40 [40]	8 [4]
									34.20 - 18Kw (415V)		
45 (195)	Q	200-240	50/60	3	3+PE			N/A	41 - 18Kw (208V)	60 [63]	6 [10]
									53.3 - 18Kw (240V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
45 (195)	X	200-240	50/60	1/3	2/3+PE	16	20 [20]	12 [2.5]			N/A
55 (235)	C	380-415	50/60	3	3+N +PE	16	20 [20]	12 [2.5]	31.4 - 18Kw (380V)	40 [40]	8 [4]
									36.7 - 18Kw (415V)		
55 (235)	N	440-480	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	25.30 - 18Kw (440V)	40 [32]	8 [4]
									29.80 - 18Kw (480V)		
55 (235)	P	380-415	50/60	3	3+PE	6.5	15 [16]	14 [2.5]	29 - 18Kw (380V)	40 [40]	8 [4]
									34.20 - 18Kw (415V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
55 (235)	Q	200-240	50/60	3	3+PE			N/A	41 - 18Kw (208V)	60 [63]	6 [10]
									53.3 - 18Kw (240V)		
55 (235)	X	200-240	50/60	1/3	2/3+PE	16	20 [20]	12 [2.5]	N/A		
75 (305)	C	380-415	50/60	3	3+N +PE	9	15 [16]	14 [2.5]	41.70 - 24Kw (380V)	60 [63]	6 [10]
									48.70 - 24Kw (415V)		
75 (305)	N	440-480	50/60	3	3+PE	9	15 [16]	14 [2.5]	25.30 - 18Kw (440V)	40 [32]	8 [4]
									29.80 - 18Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
75 (305)	P	380-415	50/60	3	3+PE	9	15 [16]	14 [2.5]	41.70 - 24Kw (380V) 48.70-24Kw (415V)	60 [63]	6 [10]
75 (305)	Q	200-240	50/60	3	3+PE	15	20 [20]	12 [4]	41 - 18Kw (208V) 53.3 - 18Kw (240V)	60 [63]	6 [10]
75 (305)	X	200-240	50/60	1/3	2/3+PE			N/A			N/A

Table 23

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
100 (455)	C	380 - 415	50/60	4W3	3+N +PE	14.8	20 [25]	12 [4]	48 - 27Kw (380V)	70 [63]	8 [10]
									51 - 27Kw (415V)		
									61 - 36Kw (380V)	90 [80]	6 [16]
									66 - 36Kw (415V)		
100 (455)	N	440 - 480	50/60	3	3+PE	14.8	20 [25]	12 [4]	36 - 27Kw (440V)	50 [63]	8 [10]
									39 - 27Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
100 (455)	P	380 - 415	50/60	3	3+PE	14.8	20 [25]	12 [4]	48 - 27Kw (380V)	70 [63]	8 [10]
									51 - 27Kw (415V)		
									61 - 36Kw (380V)	90 [80]	6 [16]
100 (455)	Q	200-240	50/60	3	3+PE	21.4	30 [32]	10 [6]	66 - 27Kw (200V)	90 [80]	6 [16]
									75 - 27Kw (240V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
135 (575)	C	380 - 415	50/60	4W3	3+N +PE	15.9	20 [25]	12 [4]	48 - 27Kw (380V)	70 [63]	8 [10]
									52 - 27Kw (415V)		
									62 - 36Kw (380V)	90 [80]	6 [16]
									67 - 36Kw (415V)		
135 (575)	N	440 - 480	50/60	3	3+PE	15.9	20 [25]	12 [4]	37 - 27Kw (440V)	50 [63]	8 [10]
									40 - 27Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
135 (575)	P	380 - 415	50/60	3	3+PE	15.9	20 [25]	12 [4]	48 - 27Kw (380V)	70 [63]	8 [10]
									52 - 27Kw (415V)		
									62 - 36Kw (380V)	90 [80]	6 [16]
									67 - 36Kw (415V)		
135 (575)	Q	200-240	50-60	3	3+PE	25.5	40 [32]	10 [6]	66 - 27Kw (240V)	90 [80]	6 [16]
									75 - 27Kw (240V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
165 (730)	C	380 - 415	50/60	4W3	3+N +PE	16.2	25 [25]	12 [4]	49 - 27Kw (380V)	70 [63]	8 [10]
									53 - 27Kw (415V)		
									62 - 36Kw (380V)	90 [80]	6 [16]
									68 - 36Kw (415V)		
165 (730)	N	440 - 480	50/60	3	3+PE	16.2	25 [25]	12 [4]	38 - 27Kw (440V)	50 [63]	8 [10]
									40 - 27Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
165 (730)	P	380 - 415	50/60	3	3+PE	16.2	25 [25]	12 [4]	49 - 27Kw (380V)	70 [63]	8 [10]
									53 - 27Kw (415V)		
									62 - 36Kw (380V)	90 [80]	6 [16]
									68 - 36Kw (415V)		
165 (730)	Q	200 - 240	50/60	3	3+PE	25.5	40 [32]	10 [6]	66 - 27Kw (200V)	90 [80]	6 [16]
									75 - 27Kw (240V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
200 (900)	C	380 - 415	50/60	4W3	3+N +PE	18.5	25 [25]	12 [4]	50 - 27Kw (380V)	70 [63]	8 [10]
									54 - 27Kw (415V)		
									63 - 36Kw (380V)	90 [80]	6 [16]
									69 - 36Kw (415V)		
200 (900)	N	440 - 480	50/60	3	3+PE	18.5	25 [25]	12 [4]	39 - 27Kw (440V)	50 [63]	8 [10]
									41 - 27Kw (480V)		

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Electrical Specifications											
Voltage Designation						Hot/Cold Water Fill and Steam Heat			Electric Heat		
Capacity lb. (l)	Code	Voltage	Cycle	Phase	Wire	Full Load Amps	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]	Full Load Amps (Heating Element kW) (Voltage)	Circuit Breaker U.S. [non-U.S.]	AWG [mm2]
200 (900)	P	380 - 415	50/60	3	3+PE	18.5	25 [25]	12 [4]	50 - 27Kw (380V)	70 [63]	8 [10]
									54 - 27Kw (415V)		
									63 - 36Kw (380V)	90 [80]	6 [16]
									69 - 36Kw (415V)		
200 (900)	Q	200 - 240	50/60	3	3+PE	32	40 [32]	10 [6]	67 - 27Kw (200V)	90 [80]	6 [16]
									76 - 27Kw (240V)		

Table 24

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Electrical Connection

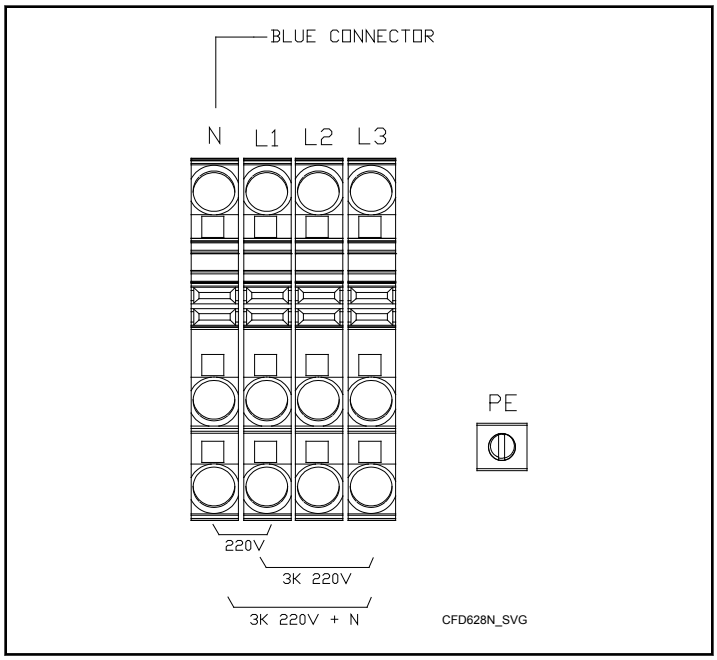


Figure 22

Remove the cover plate at the back of the machine. Using copper conductors only, connect the power cable to the connectors. Refer to the instructions listed on the machine's decal on how to connect the machine.

Machine without Electric Heating

Connect 200-240V single phase (1AC) to the connectors "N" and "L1". The green/yellow grounding clamp has to be the grounding wire "PE".

Machine with Electric Heating

200-240V 3AC

200-240V 3 phase (3AC) should be connected to the connectors "L1, L2, L3". Refer to *Figure 22* .

The green/yellow grounding clamp has to be connected to the grounding wire "PE".

380-415V 3AC + N

380-415V 3 phase (3AC + N) has to be connected to the connectors "L1, L2, L3", the blue neutral to the "N" connector. Refer to *Figure 22* .

The green/yellow grounding clamp has to be connected to the grounding wire "PE".

After electrical installation is complete, run the machine through a test cycle and check for a clockwise basket rotation during the extract step. If rotation is not clockwise, disconnect the power from the machine and have a qualified electrician reverse any 2 motor leads at the AC drive terminal block.

Remote Liquid Supply Connection

Chemical Injection Supply System

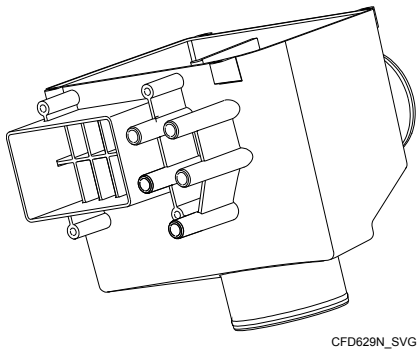
WARNING

Dangerous Chemicals. May damage eyes and skin. Wear eye and hand protection when handling chemicals; always avoid direct contact with raw chemicals. Read the manufacturer's directions for accidental contact before handling chemicals. Ensure an eye-rinse facility and an emergency shower are within easy reach. Check at regular intervals for chemical leaks.

W363

Undiluted chemical dripping can damage the machine. All chemical supply dispenser pumps should be mounted below the machine's injection point. All dispenser tubing should also run below the injection point. Loops do not prevent drips if these instructions are not followed.

IMPORTANT: Failure to follow these instructions could damage the machine and void the warranty.



Connection of the Liquid Supply Hoses

Figure 23

A connection has been placed at the back of the machine. There are five holes in this connection, through each of which a liquid supply hose can be connected.

CAUTION

Drill out plugs and nipples before making supply hose connection. Failure to do so can cause buildup of pressure and risk a tubing rupture.

W491

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Steam Requirements (Steam Heat Option Only)

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Steam requirements are shown in *Table 25* and *Table 26* .

WARNING

Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.

SW014

Steam Supply Information		
Capacity lb. (l)	**12 - 35 (60 - 165)**	**45 - 75 (195 - 305)**
Steam inlet connection, in [mm]	3/8 [10]	1/2 [13]
Number of steam inlets	1	1
Recommended pressure, psi [bar]	28 – 78 [2.0 – 5.5]	28 – 78 [2.0 – 5.5]
Maximum pressure, psi [bar]	78 [5.5]	78 [5.5]

Table 25

Steam Supply Information		
Capacity lb. (l)	**100 - 135 (455 - 575)**	**165 - 200 (730 - 900)**
Steam inlet connection, in [mm]	1/2 [12.7]	3/4 [19]
Number of steam inlets	1	1
Recommended pressure, psi [bar]	28 – 78 [2.0 – 5.5]	28 – 78 [2.0 – 5.5]
Maximum pressure, psi [bar]	78 [5.5]	78 [5.5]

Table 26

Supply Programming Table

When programming a supply step on the WE-8, choose between 9 different supply steps. Refer to *Table 27* .

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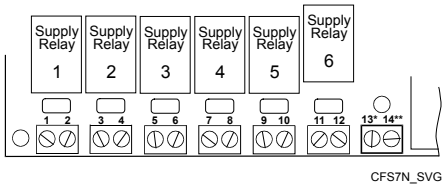
Supply 1	Turns on the water valve in compartment A of the supply box.
Supply 2	Turns on the water valve in compartment B of the supply box.
Supply 3	Turns on the water valve in compartment C of the supply box.
Supply 4	Activates supply relay 1.
Supply 5	Activates supply relay 2.
Supply 6	Activates supply relay 3.
Supply 7	Activates supply relay 4.
Supply 8	Activates supply relay 5.
Supply 9	Activates supply relay 6.

Table 27

NOTE: The Supply button is button 6.

Supply Relay Configuration (No Wiring)



Typical Supply Relay Board Configuration

Figure 24

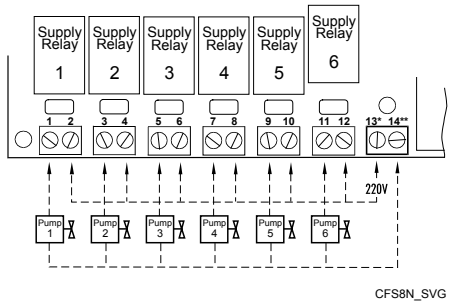
* L1 (220 VAC) wire or terminal for remote liquid supply connection.

** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

The supply relay board is set up to give NO Voltage AC output to the respective terminals. It is a dry contact closure of the relay. The voltage applied must be supplied with the jumper configurations. Refer to *Figure 24* .

Primary 220 Volt Remote Liquid Supply Connection

IMPORTANT: When programming a supply step, supplies 1, 2 and 3 DO NOT control the relays shown on *Figure 25* . Programming supply 1, 2 or 3 ONLY activates water in compartment A, B or C. Programming supply 4 activates relay 1. Programming supply 5 on the WE-8 will activate supply relay 2, etc. Programming supply 4-9 on the WE-8 will activate supply relay 1-6 on the board, respectively. Refer to *Table 27* .



Electrical Connection of the Liquid Supply Pumps

Figure 25

* L1 (220 VAC) wire or terminal for remote liquid supply connection.

** L2 common wire (220 VAC) or terminal for remote liquid supply connection.

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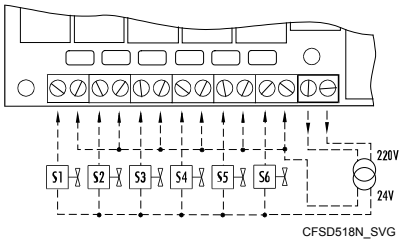
Supply relay 1 controls terminals 1 and 2. *Figure 25* shows the jumper wire from terminal 13 (L1 220 VAC) to all other even pins (i.e., 2, 4, 6…). This applies L1 (220 VAC) to terminal 2. When supply 4 on the WE-8 is programmed, this will close supply relay 1 and apply L1 (220 VAC) through pin 2 to pin 1. This signal is used from the terminal to the chemical supply vendors first pump.

IMPORTANT: Supply 4 must be programmed on the WE-8 to create the signal on terminal 1. The chemical vendor will always use terminal 14 as the common terminal for all pumps. This will apply for the remainder of the 220 VAC circuit for each of the pump signals. For the remainder of the relays, supply relay 2 will control terminals 3 and 4; supply relay 3 will control terminals 5 and 6; etc.

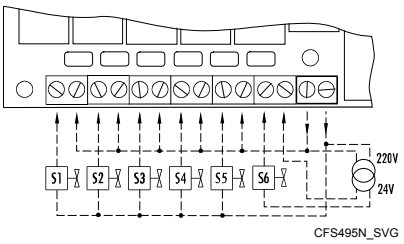
IMPORTANT: The WE-8 must be programmed for supply 4-9 to energize the supply relays 1-6 respectively.



Example: Pumps 24V

Figure 26

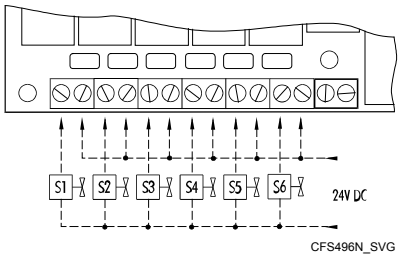
The 220V can be transformed to other values to drive other type supply pumps.



Example: 5 Pumps 22V and 1 Pump 24V

Figure 27

Also, pumps with different operating voltage requirements can be combined.

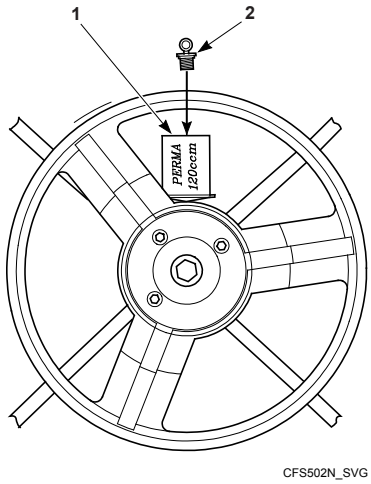


With an External 24V DC

Figure 28

Automatic Lubricator

Only for 75 lb. (305 l) Models



1. Lubricating Device
2. Screw

Figure 29

The bearing house of the machine is equipped with a lubricating device, refer to *Figure 29* , which automatically lubricates the bearing during one year. Upon delivery of the machine, this lubricator has been brought into use. When replacing, please put on the matching screw, refer to *Figure 29* , in the foreseen opening of the lubricator to activate.

WARNING

Ignoring this instruction will inevitably cause damage to the bearings and void the warranty!

W492

Control Function Test

The machine should be cleaned after the installation is complete. A function test should then be executed on the unloaded machine:

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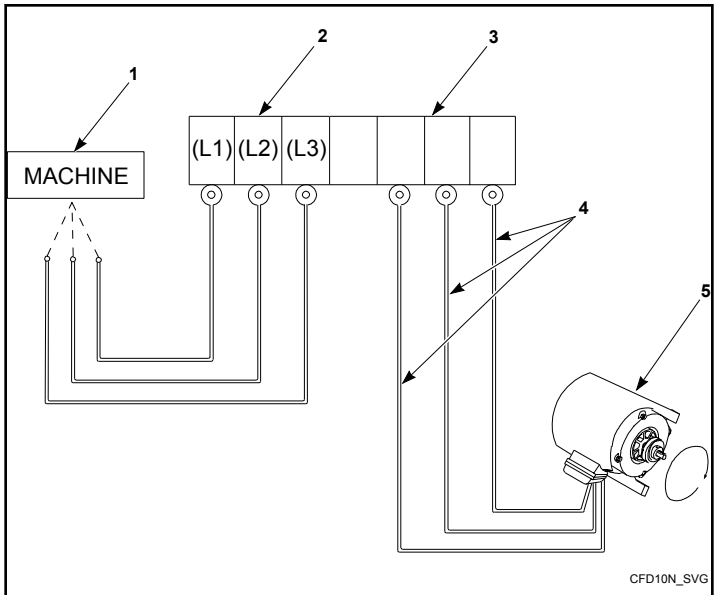
1. Verify that power supply voltage and phase are correct in accordance with the machine's requirements.
2. Open manual shut-off valves to the machine.
3. Press the Emergency Stop button.
4. Apply power to the machine.
5. Release the Emergency Stop button.
6. Check the door interlock before starting operation:
   a. Attempt to start the machine with the door open. The machine should not start.
   b. Close the door without locking it and attempt to start the machine. The machine should not start.
   c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a qualified service technician.

7. For standard processing, select Cycle 01 by pressing key 0 and key 1 on the keypad. Then press the Start key (or run factory test cycle 39 by pressing key 3, key 9 and Start key).

Run a complete cycle, checking operation of water inlet valves, drain, and extract functions.

8. Cylinder rotation must be clockwise in an extract step for all models. If rotation is not correct, disconnect power. A qualified electrician must reverse any two motor leads between the AC drive and the main drive motor. Refer to *Figure 30* .



1. Power Supply
2. Typical Connection (See machine schematic or invertor drive for details of electronic connections)
3. AC Drive Connections
4. Motor Leads (Swap any 2 of the 3 motor leads to change rotation direction)
5. Main Drive Motor

Figure 30

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Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 31* . Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

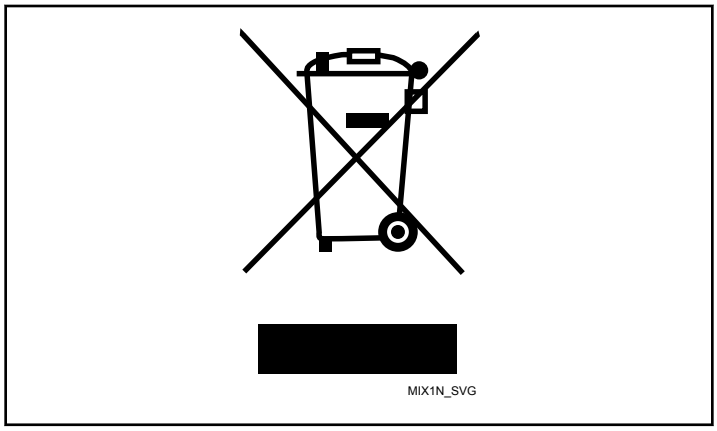

Figure 31

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